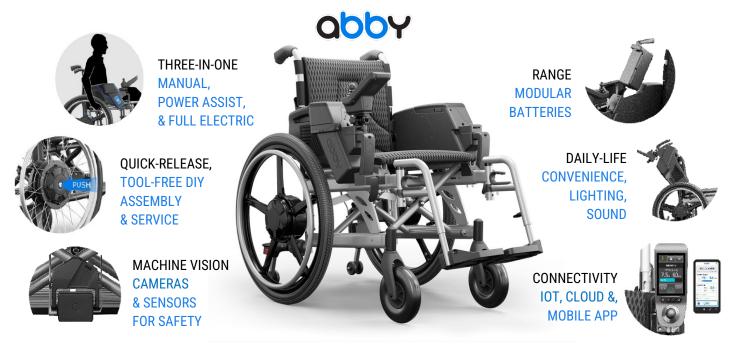


ABBY OVERVIEW

ABBY is a new safe, advanced, affordable smart wheelchair for adults with reduced mobility.



Our Solution

We based ABBY on the traditional rear-wheel-drive wheelchair format most suited for the developing world, updated with **machine vision & IoT** to compete in multiple categories, for increased safety, to extend the reach of family and caregivers; even combat loneliness, unlocking its full potential.

The Problem

Manual wheelchairs have been popular for centuries because they are versatile, lightweight and inexpensive, but they can be difficult to use independently, especially as we age.

Power Wheelchairs weigh hundreds of pounds, cost tens of thousands of dollars & need minivans with ramps to transport.

Mobility Scooters were created as an inexpensive alternative, but the three wheeled ones are dangerously unstable, and anything with handlebars can't maneuver well indoors.

2 million power chairs & scooters were manufactured in 2020 and most were sold B2B as Medical Devices **for over \$4B** to 3rd party insurance payors.

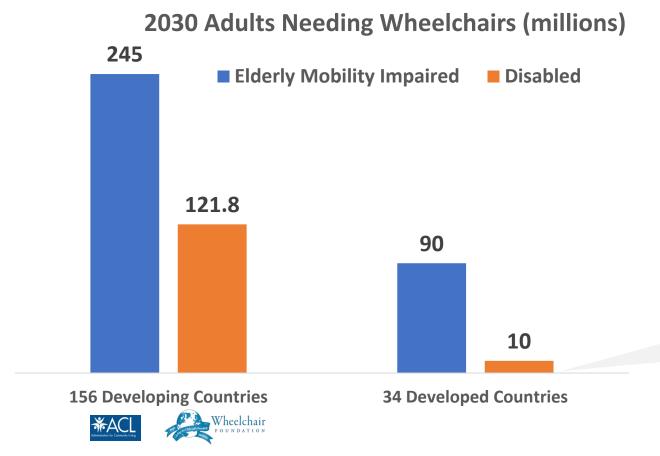


Despite almost \$7B in 2020 wheelchair sales & 5% CAGR, the status-quo B2B healthcare "scarcity" model incentivizes overpricing and underproduction of mobility devices, constraining supply AND leaving manual chairs as the sole option for the vast majority of people with reduced mobility worldwide.



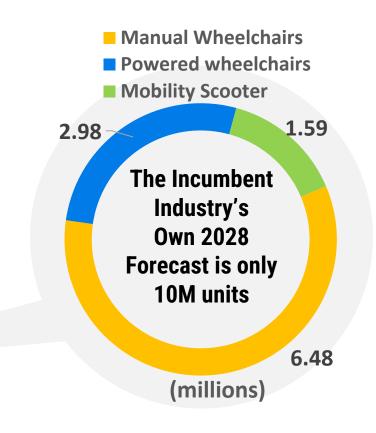
MARKET SIZE / INDUSTRY FORECAST

How Many Wheelchairs Are Needed?



Hundreds of Millions of Wheelchairs Are Needed TODAY

How Many Wheelchairs Are Produced?



The \$9B Incumbent Industry Plans
To Manufacture 10 Million by 2028





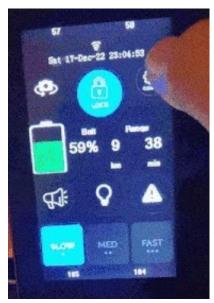
ABBY Features Overview (click to play video)

We Believe

Powered Mobility Can Be Safe, Advanced & Affordable For Everyone – Regardless of Income or Insurance

As The Ideal Manual/Power Hybrid in Developing Markets

Able to Compete in Multiple Categories in Developed Markets





IoT & Robotic Controller Features Overview (click to play video)

ABBY's IoT/Robotic Controller

Roadmap Agility & Independence

Cost Of Goods Advantage

Software Subscriptions -> Socially Assistive Robotics



COMPETITION

* Braze Mobility Sensors
* Luci Smart Sensors

** ElliQ Companion
Learn About Technology Adoption



















| Mobility Scooters | Travel Chairs | Power Chairs | Feature / Brand | <u>ABBY</u> | <u>E-Fix</u> | E-Motion | Xtender | <u>SmartDrive</u> | SMOOV |
|----------------------|---------------|--------------------|--------------------------|-------------|--------------|----------|---------|-------------------|---------|
| No | No | No | Reverse Camera | Yes | No | No | No | No | No |
| No | No | *\$2,500+ Add-on | Collision Avoidance | Yes | No | No | No | No | No |
| No | No | No | ** Companion Robotics | Yes | No | No | No | No | No |
| No | No | No | Power Assist | Yes | No | Yes | Yes | Yes | Yes |
| No | Yes | Yes | Joystick | Yes | Yes | No | No | No | No |
| No | No | No | Armrest Table Clearance | Yes | No | N/A | N/A | N/A | N/A |
| No | No | No | Remote Control | Yes | No | No | No | No | No |
| No | Yes | No | Modular Spare Battery | Yes | No | No | No | No | No |
| No | No | Yes | Speaker | Yes | No* bell | No | No | No | No |
| Yes | No | Yes | Lighting | Yes | No | No | No | No | No |
| No | Yes | No | Portable | Yes | Yes | Yes | Yes | Yes | Yes |
| 9KPH | 6KPH | 10KPH | Top Speed | 10KPH | 6KPH | 8KPH | 6KPH | 6KPH | 9.5KPH |
| 330 | 200 | 350 | Maximum User Weight | 330 | 330 | 330 | 265 | 330 | 330 |
| 100 | 35 | 300 | Weight (w/typical chair) | 72 | 80 | 60 | 94 | 48 | 50 |
| No | No | Yes | Mobile App | Yes | Yes | Yes | No | Yes | Yes |
| Yes | Yes | Yes | Wheelchair included | Yes | No | No | No | No | No |
| \$1,500 | \$1,995 | \$4,000 - \$40,000 | Price | \$3,950 | \$6,500 | \$5,996 | \$8,045 | \$\$6,600 | \$5,600 |

Our Serviceable Market in developed countries is

4M Units/Year

Manual Wheelchairs

Powered wheelchairs

Mobility Scooter

1.29

The Incumbent

Industry's Own 2028 Forecast is only 10M units "a Scarcity Model"

6.48

Plus, millions more in Developing Countries

ABBY is competitive with the Incumbent brands in EVERY category

Vs. 1M POWER WHEELCHAIRS

- Vs. Power Chair (low dependence users)
- Vs. Travel Chair
- As Portable 2nd Power Chair

Vs.1M MOBILITY SCOOTERS

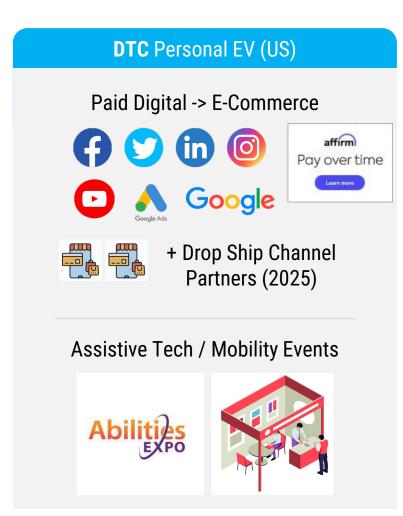
- Vs. Three & Four-wheelers
- As AGE TECH (w/Social Assistive Robotics)

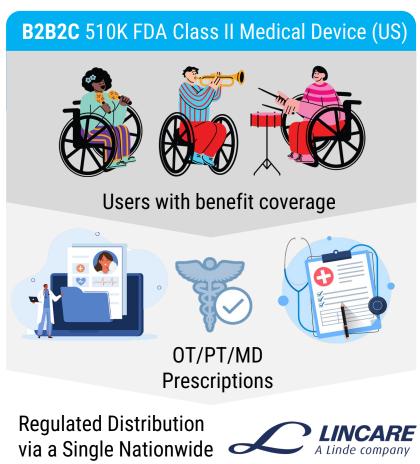
Vs. 2M POWER ADD-ONs

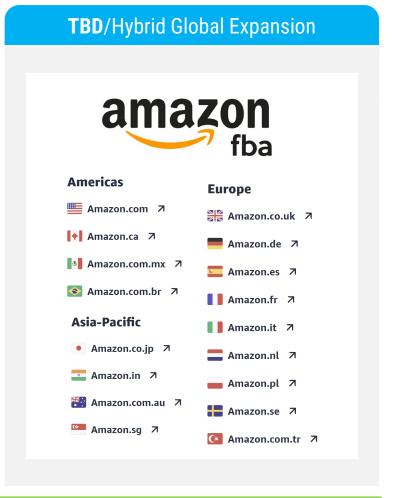
- Vs. Transport Chair for home use
- Vs. Existing Power Add-ons
- As First Power Chair



MARKETING







FDA Cleared ABBY

CE MDR ISO 13485

Partner

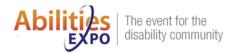
Basic ABBY (\$1999 target)

Software Subscription Revenue Roadmap

2024 2025 2026 2027 2028...



TRACTION



NEW YORK METRO

May 5-7, 2023

New Jersey Convention & Expo Center Fri. 11am-5pm | Sat. 11am-5pm | Sun 11am-4pm





We received 44 visitors and 9 test drives were conducted at ABBY's booth at Abilities Expo NY May 5,6,&7. The feedback from prospective customers on features and price was overwhelmingly positive. We could have sold 3 or 4 units each day if we were ready and many times found ourselves having to politely decline cash offers for the demo chairs.





PRODUCTION READY

- Molds & Tooling
- **PCB Masters**
- Frame Jigs
- **Unit Economics**







MARKET VALIDATION

- **Awareness**
- Product Fit

Demand

Pricing









We met our first pilot customer Dr. Staton last year after he discovered ABBY on WeFunder (investing \$10,000) - He reached out to our general mailbox and after we spoke, he more than doubled his investment to \$25,000 AND volunteered to become a pilot user.

On 5 Feb we delivered his ABBY in Tennessee (and booked our first \$3,950 in revenue). Since then he's enjoyed far greater mobility and continues to give us exactly the sort of end-user feedback we need to validate the hardware and software in real-world conditions.

We delivered our 2nd ABBY paid pilot to Rebecca **Armstrong** shortly after the Expo. Ms. Armstrong has CP and recently retired as Child Life Program Director for Presbyterian Hospital in Albuquerque, NM. We delivered Rebecca's ABBY to her while she was vacationing on Fire Island NY without her 300lb primary power chair. She was so happy to be mobile on vacation she drove around with a cardboard sign promoting our new ABBY website all day.

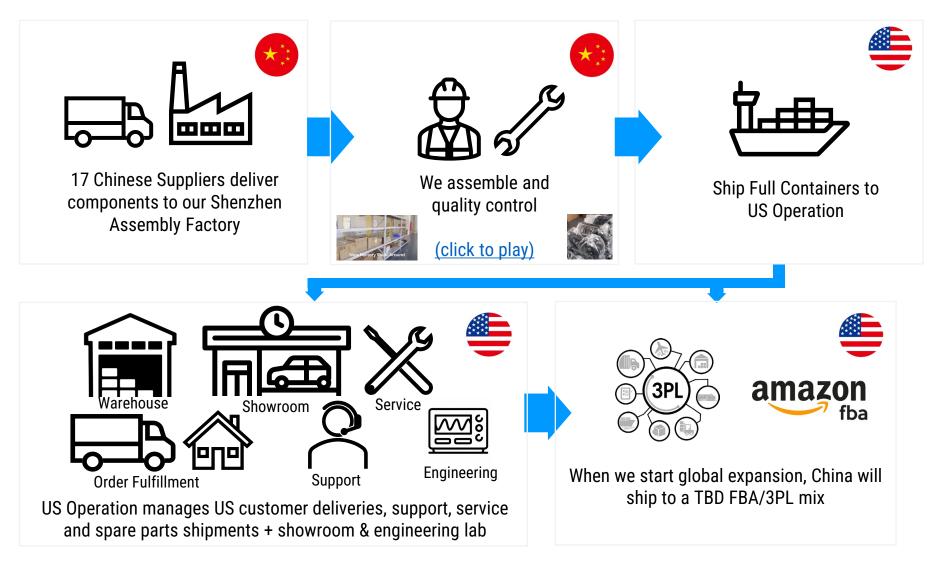






OPERATIONS

Assembly and QC by our Factory in Shenzhen - full containers sent a single US combination warehouse/service center/lab/showroom coordinating end-user door delivery, service and support. Once we have a working formula for operations and growth we'll migrate to a mix of FBA and 3PLs for international expansion.



FINANCIALS

| Forecast (Units) | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|--------------------------|--------------|-------------|-------------|-------------|-------------|-------------|---------|
| Sold | 350 | 2,100 | 7,350 | 18,375 | 36,750 | 54,230 | 110,306 |
| Price | 3,950 | 3,950 | 3,950 | 3,753 | 3,377 | 2,875 | 2,350 |
| Cost | 1,100 | 1,089 | 926 | 833 | 750 | 744 | 698 |
| P&L (\$,000s) | | | | | | | |
| Revenue | 1,388 | 8,326 | 29,140 | 69,207 | 124,572 | 155,911 | 259,219 |
| Cost of Goods | 388 | 2,303 | 6,860 | 15,450 | 27,835 | 36,789 | 62,891 |
| Gross Profit | 1,000 | 6,023 | 22,279 | 53,757 | 96,737 | 119,122 | 196,328 |
| % | 72 % | 72 % | 76 % | 78 % | 78 % | 76 % | 76% |
| Product Development | 293 | 610 | 1,088 | 1,845 | 3,783 | 4,990 | 6,589 |
| | 21% | 7% | 4% | 3% | 3% | 3% | 3% |
| Service & Fulfillment | 281 | 1,269 | 3,859 | 8,943 | 15,821 | 20,200 | 35,899 |
| | 20% | 15% | 13% | 13% | 13% | 13% | 14% |
| Sales & Marketing | 418 | 967 | 4,778 | 14,870 | 31,134 | 41,302 | 65,591 |
| | 30% | 12% | 16% | 21% | 25% | 26% | 25% |
| Administration | 809 | 1,644 | 3,793 | 7,766 | 12,935 | 17,334 | 27,910 |
| | 58% | 20% | 13% | 11% | 10% | 11% | 11% |
| Net Profit | (801) | 1,532 | 8,762 | 20,332 | 33,063 | 35,296 | 60,339 |
| % | -58 % | 18% | 30% | 29 % | 27 % | 23% | 23% |
| Average FTE | 9 | 14 | 28 | 54 | 97 | 144 | 180 |

65,000 Units in Five Years (~1.5% of US PMD market)

PROFITABLE

After 1,000 Units (~Month 20)

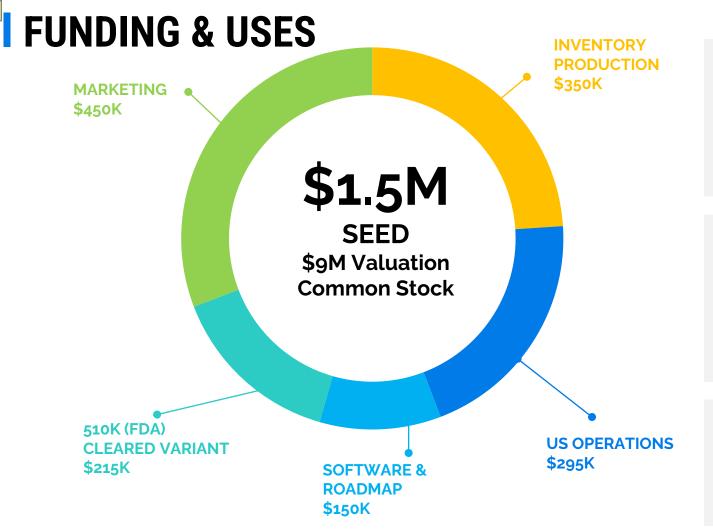
2024 - US DTC

2025 - US + B2B (FDA510K)

2026 - +30 + FBA (CE MD/ISO 32485)

+ Basic ABBY below 3,000

2028 - +15 Developing countries



Key Results by Y2

- Production capacity for 300 units/month
- US operation
- Foundation for growth
- FDA cleared variant start B2B regulated sales in US
- Profitable (~ month 20 w/1000 units shipped)

<u>...by Y5</u>

- 65,000 Units
- B2B regulated sales in US
- Global expansion (FBA markets w/CE MD ISO13485)
- Basic (< \$2,000) ABBY
- Software subscription roadmap

Growth Round in 2026 ... by 2030

- 250,000 units fastest growing major brand
- Active in 30 developed & 15 developing countries
- Pursuing product & business model adjacencies for growth (e.g., Financing, Technology Licensing, etc.)

\$1.5M seed round for US launch - \$10M post-seed in 2026 for global expansion

- Key Hires (US & Sr. Team)
- Facilities & Admin (US Operations, Insurances, IP)
- Launch (Paid Marketing, Events, Drop-ship channels)

- Roadmap (Regulatory FDA & CE MDR, Software, Mobil App, Basic Version)
- Beachheads in EU, APAC, MEA, LTAM by 2027



MANAGEMENT – TEAM ABBY



JOHN DEBENEDETTE CEO & Founder

(NJ)



WEI WEN JING Chief of Design & Engineering (SHENZHEN)



DR. CLARENCE
TAN
Investor &
Co-founder
(GOLD COAST)



DR. BRENT STATON Investor & Medical Advisor (TENNESSEE)

Advisor



JASON SCHER Investor & Product Advisor (CHICAGO)



Lynn Wei Software

 10 years embedded systems development in consumer electronics and rideable EV products



Prawwaree
Paonil
Brand & Marketing

- 7 years at Group-M digital agency with global brand accounts (Amway, Nestle, Volvo Cars)
- 3 years creative, design, game and <u>UX&UI</u>

techstars_



